



Day : Monday  
Date: 3/6/2006  
Time: 13:38:19

## Inventor Name Search

Enter the first few letters of the Inventor's Last Name.  
Additionally, enter the first few letters of the Inventor's First name.

**Last Name**

**First Name**

Russell

Stephen

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### Search Results -

Term	Documents
(8 NOT 9).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	57
(L8 NOT L9 ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	57

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### Search History

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Set Name   Query  
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 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;  
 OP=AND

<u>L10</u>	L8 not L9	57	<u>L10</u>
<u>L9</u>	L8 and (cleavable adj linker)	7	<u>L9</u>
<u>L8</u>	L7 and (retrovirus or retroviral)	64	<u>L8</u>
<u>L7</u>	L6 and L5	64	<u>L7</u>
<u>L6</u>	(chimeric or fused or fusion) same (envelope adj protein)	1498	<u>L6</u>
<u>L5</u>	L4 and L3	1006	<u>L5</u>
<u>L4</u>	(SCF or (steel adj factor) or (kit adj ligand) or (FLT3 adj ligand))	13454	<u>L4</u>
<u>L3</u>	((packaging or producer) adj cell)	8965	<u>L3</u>
<u>L2</u>	L1 and (SCF)	6	<u>L2</u>
<u>L1</u>	Russell-Stephen-James.in.	32	<u>L1</u>

END OF SEARCH HISTORY

## Welcome to DialogClassic Web(tm)

Dialog level 05.10.03D

Last logoff: 03mar06 17:38:15

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## \*\*\* ANNOUNCEMENTS \*\*\*

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## NEW FILES RELEASED

\*\*\*Regulatory Affairs Journals (File 183)

\*\*\*Index Chemicus (File 302)

\*\*\*Inspec (File 202)

\*\*\*Physical Education Index (File 138)

\*\*\*

## RELOADS COMPLETED

\*\*\* The 2005 reload of the CLAIMS files (Files 340, 341, 942)  
is now available online.

## RESUMED UPDATING

\*\*\*EDGARPLUS(TM)-Williams Act Filings (File 773)

\*\*\*EDGARPLUS(TM)-Prospectuses (File 774)

\*\*\*EDGARPLUS(TM)-Registration Statements (File 775)

\*\*\*EDGARPLUS(TM)-6K,8K, and 10C Filings (File 776)

\*\*\*EDGARPLUS(TM)-10-K &amp; 20F Filings (File 778)

\*\*\*EDGARPLUS(TM)-10-Q Filings (File 779)

\*\*\*EDGARPLUS(TM)-Proxy Statements (File 780)

\*\*\*ERIC (File 1)

\*\*\* Chemical Structure Searching now available in Prous Science D  
Data Report (F452), Prous Science Drugs of the Future (F453),  
IMS R&D Focus (F445/955), Pharmaprojects (F128/928), Beilstein  
Facts (F390), Derwent Chemistry Resource (F355) and Index Chemicus  
(File 302).

\*\*\*

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KWIC is set to 50.

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File 1:ERIC 1966-2006/Jan (c) format only 2006 Dialog

Set Items Description

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Cost is in DialUnits

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B 155, 5, 73

06mar06 14:03:50 User259876 Session D851.1

\$0.81 0.230 DialUnits File1

\$0.81 Estimated cost File1

\$0.08 INTERNET

\$0.89 Estimated cost this search

\$0.89 Estimated total session cost 0.230 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2006/Mar 06

(c) format only 2006 Dialog

File 5:Biosis Previews(R) 1969-2006/Feb W4

(c) 2006 BIOSIS

File 73:EMBASE 1974-2006/Mar 06

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Set	Items	Description
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?

S (RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)  
Processing

42558	RETROVIRAL
403703	STEM
8298348	CELL
2487915	FACTOR

S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
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S S1 NOT PY&gt;1995

352	S1
15363289	PY>1995

S2	59	S1 NOT PY>1995
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RD

S3	30	RD (unique items)
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S S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)

30	S3
742954	IMPROVED
805797	ENHANCED
729165	BETTER
420109	TRANSDUCTION

S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)
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T S4/3,K/ALL

4/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10744044 PMID: 7524756

**Increased gene transfer into human hematopoietic progenitor cells by  
extended in vitro exposure to a pseudotyped retroviral vector.**

von Kalle C; Kiem H P; Goehle S; Darovsky B; Heimfeld S; Torok-Storb B;  
Storb R; Schuening F G

Fred Hutchinson Cancer Research Center, Seattle, WA 98104-2092.

Blood (UNITED STATES) Nov 1 1994, 84 (9) p2890-7, ISSN 0006-4971

Journal Code: 7603509

Contract/Grant No.: CA15704; CA; NCI; CA18105; CA; NCI; CA18221; CA; NCI;

+

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Retroviral-mediated gene transfer is the most attractive modality for  
gene transfer into hematopoietic stem cells. However, **transduction**  
efficiency has been low using amphotropic Moloney murine leukemia virus

(MoMLV) vectors. In this study, we investigated modifications of gene transfer using amphotropic MoMLV vectors in cell-free supernatant for their ability to increase the currently low **transduction** of both committed hematopoietic progenitors, granulocyte-macrophage colony-forming units (CFU-GMs), and their precursors, long-term culture-initiating cells (LTC-IC). First, based on...

...PG13/LN, which is a MoMLV vector pseudotyped with the GALV envelope, was compared with the analogous amphotropic envelope vector (PA317/LN). Second, progenitor cell **transduction** efficiency was compared between CD34 enriched and nonenriched progenitor populations. Third, the duration of **transduction** in vitro was extended to increase the proportion of progenitor cells that entered cell cycle and could thereby integrate vector cDNA. In 20 experiments, 1...

... titers of pseudotyped PG13/LN vector or PA317/LN vector in the presence of recombinant human interleukin-1 (IL-1), IL-3, IL-6, and **stem cell factor** (SCF; c-kit ligand) for 5 days. 50% of fresh vector supernatant was refed daily. Hematopoietic progenitor cells as measured by G418-resistant granulomonocytic colony...

... effectively with PG13/LN (19.35%) than with PA317/LN (11.5%,  $P = .012$ ). In 11 further experiments, enrichment of CD34 antigen positive cells significantly **improved** gene transfer from 13.9% G418-resistant CFU-GM in nonenriched to 24.9% in CD34-enriched progenitor cells ( $P < .01$ ). To analyze gene transfer...

...; CD34; Base Sequence; Bone Marrow Cells; Cell Separation; DNA Primers --chemistry--CH; Genetic Vectors; Humans; Leukemia Virus, Murine--genetics --GE; Molecular Sequence Data; Time Factors; **Transduction** , Genetic; Viral Envelope Proteins

4/3,K/2 (Item 2 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

10517731 PMID: 8299741

**Correction of the enzyme deficiency in hematopoietic cells of Gaucher patients using a clinically acceptable retroviral supernatant transduction protocol.**

Xu L; Stahl S K; Dave H P; Schiffmann R; Correll P H; Kessler S; Karlsson S

Molecular and Medical Genetics Section, NINDS, Bethesda, MD 20892.  
Experimental hematology (UNITED STATES) Feb 1994, 22 (2) p223-30,  
ISSN 0301-472X Journal Code: 0402313  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

**Correction of the enzyme deficiency in hematopoietic cells of Gaucher patients using a clinically acceptable retroviral supernatant transduction protocol.**

... marrow mononuclear cells and purified CD34+ cells were infected with virus supernatants four times in the presence of interleukin-3 (IL-3), IL-6, and **stem cell factor** (SCF) over 96 hours in culture. Cells were then plated in semisolid cultures and colony-forming unit-granulocyte/macrophage (CFU-GM) colonies were scored for vector presence by polymerase chain reaction (PCR). **Transduction** efficiency of

CFU-GM colonies derived from CD34+ cells was **improved** considerably using the amplified vectors in the GP+envAml2 packaging line. For A-LGSN, A-LG4, and unamplified LGSN, **transduction** efficiencies were 41, 42, and 25%, respectively. Therefore, multiple proviral copies resulting in higher titer improves **retroviral transduction** of human hematopoietic progenitor cells. Hematopoietic cells from Gaucher patients were transduced and placed into long-term bone marrow culture (LTBMC). Viral supernatant from the...

?

Set	Items	Description
S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
S2	59	S1 NOT PY>1995
S3	30	RD (unique items)
S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)

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S S3 NOT S4

30 S3

2 S4

S5 28 S3 NOT S4

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T S5/3,K/ALL

5/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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11110528 PMID: 7552984

**Influence of interleukin-3, interleukin-6, and stem cell factor on retroviral transduction of rhesus monkey CD34+ hematopoietic progenitor cells measured in vitro and in vivo.**

van Beusechem V W; Bart-Baumeister J A; Hoogerbrugge P M; Valerio D

IntroGene BV, Rijswijk, The Netherlands.

Gene therapy (ENGLAND) Jun 1995, 2 (4) p245-55, ISSN 0969-7128

Journal Code: 9421525

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

**Influence of interleukin-3, interleukin-6, and stem cell factor on retroviral transduction of rhesus monkey CD34+ hematopoietic progenitor cells measured in vitro and in vivo.**

... interleukin-6 (IL-6) and stem cell factor (SCF) on the susceptibility of in vitro clonogenic progenitor cells and in vivo repopulating stem cells to **retroviral** transduction. IL-6 did not contribute to transduction of progenitor cells, whereas IL-3 and SCF supported expansion and transduction of progenitors. The combination of...

5/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

11093919 PMID: 7664779

**Establishment of a cell line with features of early dendritic cell precursors from fetal mouse skin.**



Giolomoni G; Lutz M B; Pastore S; Assmann C U; Cavani A;  
Ricciardi-Castagnoli P

Laboratory of Immunology, Istituto Dermopatico dell'Immacolata, IRCCS,  
Rome, Italy.

European journal of immunology (GERMANY) Aug 1995, 25 (8) p2163-9,  
ISSN 0014-2980 Journal Code: 1273201

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... leukocyte reaction, and markedly increased this function after  
treatment with GM-CSF, GM-CSF and interleukin (IL)-4 or interferon-gamma  
(IFN-gamma); in contrast, **stem cell factor**, IL-1 alpha and tumor  
necrosis factor-alpha had no effect. Preculture with IFN-gamma was required  
for presentation of haptens to primed T cells...

5/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

11016219 PMID: 7540881

**Growth factors and stromal support generate very efficient retroviral  
transduction of peripheral blood CD34+ cells from Gaucher patients.**

Xu L C; Kluepfel-Stahl S; Blanco M; Schiffmann R; Dunbar C; Karlsson S  
Molecular and Medical Genetics Section, National Institutes of  
Neurological Disorders and Stroke (NINDS), Bethesda, MD 20892, USA.

Blood (UNITED STATES) Jul 1 1995, 86 (1) p141-6, ISSN 0006-4971  
Journal Code: 7603509

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... titer (10(8) particles/mL) retroviral supernatant once a day for 4  
consecutive days in the presence of interleukin-3 (IL-3), IL-6, and **stem  
cell factor** (SCF), with or without an irradiated allogeneic BM stromal  
layer. The growth factors alone resulted in 29% +/- 10% gene transfer of PB  
CD34+ clonogenic cells...

5/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

11016214 PMID: 7795215

**Analysis of optimal conditions for retroviral-mediated transduction of  
primitive human hematopoietic cells.**

Nolta J A; Smogorzewska E M; Kohn D B  
Childrens Hospital Los Angeles, University of Southern California School  
of Medicine, Department of Pediatrics 90027, USA.

Blood (UNITED STATES) Jul 1 1995, 86 (1) p101-10, ISSN 0006-4971  
Journal Code: 7603509

Contract/Grant No.: DK42694; DK; NIDDK; DK48700-01; DK; NIDDK

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... whereas mobilized peripheral blood progenitors were effectively transduced in the presence of either stroma or cytokines. Inclusion of the cytokines interleukin-3, interleukin-6, and **stem cell factor** did not further augment the extent of gene transfer in the presence of a stromal support layer. Additionally, human CD34+ progenitors from bone marrow or...

5/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10974937 PMID: 7538667

**Long-term in vivo expression of the human glucocerebrosidase gene in nonhuman primates after CD34+ hematopoietic cell transduction with cell-free retroviral vector preparations.**

Xu L C; Karlsson S; Byrne E R; Kluepfel-Stahl S; Kessler S W; Agricola B A; Sellers S; Kirby M; Dunbar C E; Brady R O; et al

Developmental and Metabolic Neurology Branch, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD 20892, USA.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) May 9 1995, 92 (10) p4372-6, ISSN 0027-8424

Journal Code: 7505876

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... acquired disorders affecting hematopoietic tissues. Coculture of primate bone marrow cells with retroviral producer cells, autologous stroma, or an engineered stromal cell line expressing human **stem cell factor** has resulted in a low efficiency of gene transfer as reflected by the presence of 0.1-5% of genetically modified cells in the blood...

... Infusion of transduced CD34+ cells into animals without myeloablation resulted in only transient appearance of genetically modified cells in peripheral blood. Our results document that **retroviral** transduction of primate repopulating cells can be achieved without coculture with stroma or producer cells and that the proportion of genetically modified cells may be ...

5/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10903882 PMID: 7534498

**Retrovirus-mediated transfer of a hygromycin phosphotransferase-thymidine kinase fusion gene into human CD34+ bone marrow cells.**

Akatsuka Y; Emi N; Kato H; Abe A; Tanimoto M; Lupton S D; Saito H

First Department of Internal Medicine, Nagoya University School of Medicine, Japan.

International journal of hematology (IRELAND) Dec 1994, 60 (4) p251-61, ISSN 0925-5710 Journal Code: 9111627

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

...thymidine kinase fusion gene was examined with human CD34+ bone marrow cells in the presence of interleukin-3 (IL-3), interleukin-6 (IL-6), and **stem cell factor**. Transduction efficiencies determined from the ability of transduced granulocyte-macrophage colony forming units (CFU-GM) to grow in hygromycin B and from polymerase chain reaction...

...reduced the number of CFU-GM derived from vector-infected CD34+ cells by 50%. These findings demonstrate that human hematopoietic stem cells infected with this **retroviral** vector are susceptible to ganciclovir, offering the potential to control transduced gene expression in vivo.

5/3,K/7 (Item 7 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

10838835 PMID: 7530509  
**Constitutively activating mutations of c-kit receptor tyrosine kinase confer factor-independent growth and tumorigenicity of factor-dependent hematopoietic cell lines.**

Kitayama H; Kanakura Y; Furitsu T; Tsujimura T; Oritani K; Ikeda H; Sugahara H; Mitsui H; Kanayama Y; Kitamura Y; et al  
Second Department of Internal Medicine, Osaka University Medical School, Japan.

Blood (UNITED STATES) Feb 1 1995, 85 (3) p790-8, ISSN 0006-4971  
Journal Code: 7603509  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... IL-3) for their growth and survival. In the cells, KITG559 or KITV814 were found to be constitutively phosphorylated on tyrosine in the absence of **stem cell factor** (SCF) that is a ligand for KIT. Chemical cross-linking analysis showed that a substantial fraction of the phosphorylated KITG559 underwent dimerization even in the...

5/3,K/8 (Item 8 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
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10815770 PMID: 7529065  
**Ex vivo expansion and selection of human CD34+ peripheral blood progenitor cells after introduction of a mutated dihydrofolate reductase cDNA via retroviral gene transfer.**

Flasshove M; Banerjee D; Mineishi S; Li M X; Bertino J R; Moore M A  
James Ewing Laboratory of Developmental Hematopoiesis, Sloan-Kettering Institute for Cancer Research, New York, NY 10021.

Blood (UNITED STATES) Jan 15 1995, 85 (2) p566-74, ISSN 0006-4971  
Journal Code: 7603509  
Contract/Grant No.: CA 59350; CA; NCI; NCI-P30-CA08748; CA; NCI; RO-1 DK-42693; DK; NIDDK  
Publishing Model Print  
Document type: Journal Article

Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... The number of progenitor cells from transduced CD34-positive cells increased 50-fold after cytokine prestimulation with interleukin-1 (IL-1), c-kit ligand (KL; **stem cell factor** ), and IL-3 and 2 weeks in liquid culture. Transduced colony-forming unit-granulocyte-macrophage (CFU-GM), assayed directly after the transduction procedure, were protected...

... greater than 80% of CFU-GM and ex vivo expanded pre-CFU. We have demonstrated that human hematopoietic precursor cells can be expanded extensively after **retroviral** gene transfer. The same population of early progenitors can be selected ex vivo with low-dose MTX. As long-term expression of transduced genes in...

5/3,K/9 (Item 9 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
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10793632 PMID: 7995521

**Lymphohematopoietic progenitors immortalized by a retroviral vector harboring a dominant-negative retinoic acid receptor can recapitulate lymphoid, myeloid, and erythroid development.**

Tsai S; Bartelmez S; Sitnicka E; Collins S  
Fred Hutchinson Cancer Research Center, Seattle, Washington 98104.  
Genes & development (UNITED STATES) Dec 1 1994, 8 (23) p2831-41,  
ISSN 0890-9369 Journal Code: 8711660

Contract/Grant No.: CA01676; CA; NCI; CA58292; CA; NCI  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... describe the immortalization of the murine lymphohematopoietic progenitors by a retroviral vector harboring a dominant-negative retinoic acid receptor. The immortalized progenitors proliferate as a **stem - cell - factor** -dependent clonal line EML that spontaneously generates pre-pro-B lymphocytes and erythroid and myeloid progenitors. Upon stimulation with interleukin-7 and stromal cells, the...

5/3,K/10 (Item 10 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

10793476 PMID: 7527783

**Ultrastructural localization of stem cell factor in canine marrow-derived stromal cells.**

Huss R; Hong D S; Beckham C; Kimball L; Myerson D H; Storb R; Deeg H J  
Clinical Research Division, Fred Hutchinson Cancer Research Center, Seattle, WA 98104-2092.

Experimental hematology (UNITED STATES) Jan 1995, 23 (1) p33-40,  
ISSN 0301-472X Journal Code: 0402313  
Contract/Grant No.: CA18105; CA; NCI; CA18221; CA; NCI; CA31787; CA; NCI;

+  
Publishing Model Print  
Document type: Journal Article

Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... of growth factors and especially the localization of stem cell factor (SCF) (c-kit ligand). One cell line (DO64) was immortalized by transformation with a **retroviral** vector containing the open reading frames (ORFs) E6 and E7 of the human papilloma virus type 16 (HPV-16). Transfection did not change cellular characteristics...

5/3,K/11 (Item 11 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

10719101 PMID: 7523165

**Basic fibroblast growth factor increases retroviral-mediated gene transfer into human hematopoietic peripheral blood progenitor cells.**  
Dilber M S; Bjorkstrand B; Li K J; Smith C I; Xanthopoulos K G; Gahrton G  
Department of Medicine, Karolinska Institute, Huddinge Hospital, Sweden.  
Experimental hematology (UNITED STATES) Nov 1994, 22 (12) p1129-33,  
ISSN 0301-472X Journal Code: 0402313  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... bacterial neomycin phosphotransferase (neoR) gene into human CD34(+)-enriched peripheral blood hematopoietic progenitor cells. The combination of bFGF, interleukin-3 (IL-3), IL-6, and **stem cell factor** (SCF) resulted in a transduction efficiency of 37 and 35% for G418-resistant colony-forming units-granulocyte/macrophage (CFU-GM) and mixed colonies multipotent colony...

5/3,K/12 (Item 12 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

10682994 PMID: 7520774

**Efficient retrovirus transduction of mouse pluripotent hematopoietic stem cells mobilized into the peripheral blood by treatment with granulocyte colony-stimulating factor and stem cell factor.**  
Bodine D M; Seidel N E; Gale M S; Nienhuis A W; Orlic D  
Hematopoiesis Section, National Center for Human Genome Research, Bethesda, MD.  
Blood (UNITED STATES) Sep 1 1994, 84 (5) p1482-91, ISSN 0006-4971  
Journal Code: 7603509  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

... with G-CSF and SCF. Peripheral blood PHSC mobilized by treatment with G-CSF and SCF were analyzed for their ability to be transduced by **retroviral** vectors. Peripheral-blood PHSC from splenectomized animals G-CSF and SCF were transduced with a recombinant retrovirus containing the human MDR-1 gene. The frequency...

5/3,K/13 (Item 13 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10682984 PMID: 7520768

**Transfer and expression of the human multiple drug resistance gene in human CD34+ cells.**

Ward M; Richardson C; Pioli P; Smith L; Podda S; Goff S; Hesdorffer C; Bank A

Department of Medicine, Columbia University New York, NY 10032.

Blood (UNITED STATES) Sep 1 1994, 84 (5) p1408-14, ISSN 0006-4971

Journal Code: 7603509

Contract/Grant No.: DK-25274; DK; NIDDK; HL-28381; HL; NHLBI; HL-48345; HL; NHLBI

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... gene transfer. Human bone marrow cells and isolated CD34+ cells isolated from marrow were exposed to growth factors interleukin-3 (IL-3), IL-6, and **stem cell factor** for 48 hours and then to two changes of MDR **retroviral** supernatants over the next 24 hours. Progenitor assays in methylcellulose at this time showed that 18% to 70% of BFU-E and 30% to 60% ...

5/3,K/14 (Item 14 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10534686 PMID: 8123838

**Retrovirus-mediated gene transduction into canine peripheral blood repopulating cells.**

Kiem H P; Darovsky B; von Kalle C; Goehle S; Stewart D; Graham T; Hackman R; Appelbaum F R; Deeg H J; Miller A D; et al

Fred Hutchinson Cancer Research Center, Seattle, WA 98104-2092.

Blood (UNITED STATES) Mar 15 1994, 83 (6) p1467-73, ISSN 0006-4971

Journal Code: 7603509

Contract/Grant No.: CA15704; CA; NCI; CA18105; CA; NCI; CA18221; CA; NCI; +

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... from chronic canine distemper sclerosing encephalitis on day 84, whereas the other two dogs are alive at 15 and 17 months. Our data show successful **retroviral** transduction of canine peripheral blood repopulating cells. Long-term persistence of marked myeloid and lymphoid cells after transplantation suggests that peripheral blood contains repopulating cells...

5/3,K/15 (Item 15 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10306225 PMID: 7691243

**Long-term in vivo expression of a murine adenosine deaminase gene in rhesus monkey hematopoietic cells of multiple lineages after retroviral mediated gene transfer into CD34+ bone marrow cells.**

Bodine D M; Moritz T; Donahue R E; Luskey B D; Kessler S W; Martin D I; Orkin S H; Nienhuis A W; Williams D A

Clinical Hematology Branch, National Heart, Lung, Blood Institute, Bethesda, MD 20892.

Blood (UNITED STATES) Oct 1 1993, 82 (7) p1975-80, ISSN 0006-4971  
Journal Code: 7603509

Contract/Grant No.: 5 RO1-HL46528-03; HL; NHLBI

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...bone marrow cells were exposed to medium containing the ADA retrovirus during culture on a stromal cell line engineered to express the transmembrane form of **stem cell factor**. After infusion of autologous, transduced cells into irradiated recipients, gene transfer was observed in all three monkeys. The ADA provirus was detected in 2% of...

5/3,K/16 (Item 16 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10129745 PMID: 7681785

**Retroviral-mediated gene transfer into CD34-enriched human peripheral blood stem cells.**

Cassel A; Cottler-Fox M; Doren S; Dunbar C E

Clinical Hematology Branch, National Heart, Lung, and Blood Institute, Bethesda, MD 20892.

Experimental hematology (UNITED STATES) Apr 1993, 21 (4) p585-91,  
ISSN 0301-472X Journal Code: 0402313

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... take up retroviral vectors readily. Conditions favoring gene transfer were investigated, and exposure of cells to interleukin-3 (IL-3), interleukin-6 (IL-6), and **stem cell factor** (SCF) during a 72-hour transduction was found to be most effective. The use of PB stem cells as targets for gene transfer could allow...

5/3,K/17 (Item 17 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

09838668 PMID: 1378319

**Stem cell factor, interleukin-3, and interleukin-6 promote retroviral-mediated gene transfer into murine hematopoietic stem cells.**

Luskey B D; Rosenblatt M; Zsebo K; Williams D A

Howard Hughes Medical Institute, Indiana University School of Medicine,

Indianapolis 46202.

Blood (UNITED STATES) Jul 15 1992, 80 (2) p396-402, ISSN 0006-4971  
Journal Code: 7603509

Contract/Grant No.: I PO1 HL45168-01A1; HL; NHLBI

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

**Stem cell factor, interleukin-3, and interleukin-6 promote retroviral-mediated gene transfer into murine hematopoietic stem cells.**

...retroviral infection. We have examined the effect of prestimulation of bone marrow with various cytokines, including the product of the Steel gene, Steel factor or **stem cell factor** (SCF) (the ligand for the c-kit receptor) on the efficiency of **retroviral** transduction of the human adenosine deaminase (hADA) cDNA into murine HSC. Bone marrow cells were prestimulated for 48 hours with hematopoietic growth factors, then cocultivated...

...genome copy number analysis. These results suggest that the higher level of hADA expression seen in mice receiving marrow prestimulated with SCF/IL-6 before **retroviral** infection is due to more efficient infection of reconstituting HSC. Other growth factor combinations were also studied; however, prestimulation with SCF/IL-6 or IL-3/IL-6 appeared optimal. Using **retroviral** -mediated gene transfer and viral integration patterns, Steel factor (SCF) in combination with IL-6 appears to increase the survival and self-renewal of reconstituting hematopoietic stem cells and proves useful in effecting expression of foreign genes in transplant recipients. Such pretreatment may also be useful in the application of **retroviral** transfer methods to human cells.

5/3,K/18 (Item 18 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

09121112 PMID: 1698556

**Stem cell factor is encoded at the Sl locus of the mouse and is the ligand for the c-kit tyrosine kinase receptor.**

Zsebo K M; Williams D A; Geissler E N; Broudy V C; Martin F H; Atkins H L  
; Hsu R Y; Birkett N C; Okino K H; Murdock D C; et al

AMGEN Inc., AMGEN Center, Thousand Oaks, California 91320.

Cell (UNITED STATES) Oct 5 1990, 63 (1) p213-24, ISSN 0092-8674  
Journal Code: 0413066

Contract/Grant No.: AI22674; AI; NIAID; AI23990; AI; NIAID; GM45311; GM;  
NIGMS

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... a partial cDNA encoding murine stem cell factor (SCF) and show that the gene is syntenic with the Sl locus on mouse chromosome 10. Using **retroviral** vectors to immortalize fetal liver stromal cell lines from mice harboring lethal mutations at the Sl locus (Sl/S1), we have shown that SCF genomic...



5/3,K/19 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2006 BIOSIS. All rts. reserv.

0010154352 BIOSIS NO.: 199698622185

**Enhancement of donor (human) hematopoietic stem cell (HSC) engraftment in sheep transduced in utero with a retroviral vector containing the gene for human stem cell factor (RTV-SCF)**

AUTHOR: Almeida-Porada G D (Reprint); Porada C; Heinrich M C; Hoatlin M; Bagby G C; Zanjani E D

AUTHOR ADDRESS: VAMC, Univ. Nevada, Reno, NV, USA\*\*USA

JOURNAL: Blood 86 (10 SUPPL. 1): p593A 1995 1995

CONFERENCE/MEETING: 37th Annual Meeting of the American Society of Hematology Seattle, Washington, USA December 1-5, 1995; 19951201

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Citation

LANGUAGE: English

**Enhancement of donor (human) hematopoietic stem cell (HSC) engraftment in sheep transduced in utero with a retroviral vector containing the gene for human stem cell factor (RTV-SCF)**

5/3,K/20 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2006 BIOSIS. All rts. reserv.

0009826106 BIOSIS NO.: 199598293939

**Targeted retroviral gene delivery through stem cell factor /c-kit receptor interaction**

AUTHOR: Wong Corinne Noriyuki Kasahara (Reprint); Dozy Andree; Cowan Morton J (Reprint); Kan Y W

AUTHOR ADDRESS: Dep. Pediatr. Bone Marrow Transplantation, Univ. California San Francisco, CA 94143, USA\*\*USA

JOURNAL: Journal of Cellular Biochemistry Supplement 0 (21A): p415 1995 1995

CONFERENCE/MEETING: Keystone Symposium on Gene Therapy and Molecular Medicine Steamboat Springs, Colorado, USA March 26-April 1, 1995; 19950326

ISSN: 0733-1959

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

**Targeted retroviral gene delivery through stem cell factor /c-kit receptor interaction**

5/3,K/21 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2006 BIOSIS. All rts. reserv.

0007621072 BIOSIS NO.: 199191003963

**STEM CELL FACTOR IS ENCODED AT THE SI LOCUS OF THE MOUSE AND IS THE LIGAND FOR THE C-KIT TYROSINE KINASE RECEPTOR**

AUTHOR: ZSEBO K M (Reprint); WILLIAMS D A; GEISSLER E H; BROUDY V C; MARTIN F H; ATKINS H L; HSU R-Y; BIRKETT N C; OKINO K H; ET AL

AUTHOR ADDRESS: AMGEN INC, AMGEN CENT, THOUSAND OAKS, CALIF 91320, USA\*\*USA

JOURNAL: Cell 63 (1): p213-224 1990

ISSN: 0092-8674  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

...ABSTRACT: a partial cDNA encoding murine stem cell factor (SCF) and show that the gene is syntenic with the SI locus on mouse chromosome 10. Using **retroviral** vectors to immortalize fetal liver stromal cell lines from mice harboring lethal mutations at the SI locus (SI/SI), we have shown that SCF genomic...

5/3,K/22 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2006 Elsevier Science B.V. All rts. reserv.

06172624 EMBASE No: 1995207680

**Influence of interleukin-3, interleukin-6, and stem cell factor on retroviral transduction of Rhesus monkey CD34sup + hematopoietic progenitor cells measured in vitro and in vivo**

Van Beusechem V.W.; Bart-Baumeister J.A.K.; Hoogerbrugge P.M.; Valerio D. IntroGene BV, PO Box 3271, 2280 GG Rijswijk Netherlands  
Gene Therapy ( GENE THER. ) (United Kingdom) 1995, 2/4 (245-255)  
CODEN: GETHE ISSN: 0969-7128  
DOCUMENT TYPE: Journal; Review  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Influence of interleukin-3, interleukin-6, and stem cell factor on retroviral transduction of Rhesus monkey CD34sup + hematopoietic progenitor cells measured in vitro and in vivo**

...hematopoietic progenitor cells with recombinant retroviruses. We investigated the effects of the recombinant hematopoietic growth factors interleukin-3 (IL-3), interleukin-6 (IL-6) and **stem cell factor** (SCF) on the susceptibility of in vitro clonogenic progenitor cells and in vivo repopulating stem cells to **retroviral** transduction. IL-6 did not contribute to transduction of progenitor cells, whereas IL-3 and SCF supported expansion and transduction of progenitors. The combination of...

5/3,K/23 (Item 2 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2006 Elsevier Science B.V. All rts. reserv.

06151804 EMBASE No: 1995189890

**Growth factors and stromal support generate very efficient retroviral transduction of peripheral blood CD34sup + cells from Gaucher patients**  
Xu L.-C.; Kluepfel-Stahl S.; Blanco M.; Schiffmann R.; Dunbar C.; Karlsson S.

Molecular/Medical Genetics Section, NINDS, NIH, 9000 Rockville Pike, Bethesda, MD 20892 United States  
Blood ( BLOOD ) (United States) 1995, 86/1 (141-146)  
CODEN: BLOOA ISSN: 0006-4971  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...titer (10sup 8 particles/mL) retroviral supernatant once a day for 4 consecutive days in the presence of interleukin-3 (IL-3), IL-6, and **stem cell factor** (SCF), with or without an irradiated allogeneic BM stromal layer. The growth factors alone resulted in 29% +/- 10% gene transfer of PB

CD34sup + clonogenic cells...

5/3,K/24 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2006 Elsevier Science B.V. All rts. reserv.

06121269 EMBASE No: 1995152006

**Long-term in vivo expression of the human glucocerebrosidase gene in nonhuman primates after CD34sup + hematopoietic cell transduction with cell- free retroviral vector preparations**

Xu L.C.; Karlsson S.; Byrne E.R.; Kluepfel-Stahl S.; Kessler S.W.; Agricola B.A.; Sellers S.; Kirby M.; Dunbar C.E.; Brady R.O.; Nienhuis A.W.; Donahue R.E.

Hematology Branch, NHLBI, 5 Research Court, Rockville, MD 20850 United States

Proceedings of the National Academy of Sciences of the United States of America ( PROC. NATL. ACAD. SCI. U. S. A. ) (United States) 1995, 92/10 (4372-4376)

CODEN: PNASA ISSN: 0027-8424

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...cells would provide a potentially useful therapeutic modality for treatment of inherited and acquired disorders affecting hematopoietic tissues. Coculture of primate bone marrow cells with **retroviral** producer cells, autologous stroma, or an engineered stromal cell line expressing human **stem cell factor** has resulted in a low efficiency of gene transfer as reflected by the presence of 0.1-5% of genetically modified cells in the blood...

...Infusion of transduced CD34sup + cells into animals without myeloablation resulted in only transient appearance of genetically modified cells in peripheral blood. Our results document that **retroviral** transduction of primate repopulating cells can be achieved without coculture with stroma or producer cells and that the proportion of genetically modified cells may be...

5/3,K/25 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2006 Elsevier Science B.V. All rts. reserv.

06001991 EMBASE No: 1995030643

**Ex vivo expansion and selection of human CD34sup + peripheral blood progenitor cells after introduction of a mutated dihydrofolate reductase cDNA via retroviral gene transfer**

Flasshove M.; Banerjee D.; Mineishi S.; Li M.-X.; Bertino J.R.; Moore M.A.S.

J. Ewing Devtl. Hematopoiesis Lab., Memorial Sloan-Kettering Cancer Ctr., 1275 York Ave, New York, NY 10021 United States

Blood ( BLOOD ) (United States) 1995, 85/2 (566-574)

CODEN: BLOOA ISSN: 0006-4971

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Retroviral** gene transfer into human myeloid precursor cells allows introduction of marker genes as well as genes conferring resistance to chemotherapeutic drugs. We transduced a human...

...The number of progenitor cells from transduced CD34-positive cells increased 50-fold after cytokine prestimulation with interleukin-1 (IL-1), c-kit ligand (KL; **stem cell factor** ), and IL-3 and 2 weeks in liquid culture. Transduced colony-forming unit-granulocyte-macrophage (CFU-GM), assayed directly after the transduction procedure, were protected...

...greater than 80% of CFU- GM and ex vivo expanded pre-CFU. We have demonstrated that human hematopoietic precursor cells can be expanded extensively after **retroviral** gene transfer. The same population of early progenitors can be selected ex vivo with low-dose MTX. As long-term expression of transduced genes in...

5/3,K/26 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2006 Elsevier Science B.V. All rts. reserv.

05998203 EMBASE No: 1995026848  
**Retrovirus-mediated transfer of a hygromycin phosphotransferase-thymidine kinase fusion gene into human CD34sup + bone marrow cells**  
Akatsuka Y.; Emi N.; Kato H.; Abe A.; Tanimoto M.; Lupton S.D.; Saito H.  
First Department Internal Medicine, Nagoya University School Medicine, 65  
Tsurumai-cho, Showa-ku, Nagoya 466 Japan  
International Journal of Hematology ( INT. J. HEMATOL. ) (Ireland) 1994  
, 60/4 (251-261)  
CODEN: IJHEE ISSN: 0925-5710  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...thymidine kinase fusion gene was examined with human CD34sup + bone marrow cells in the presence of interleukin-3 (IL-3), interleukin-6 (IL-6), and **stem cell factor** , Transduction efficiencies determined from the ability of transduced granulocyte-macrophage colony forming units (CFU-GM) to grow in hygromycin B and from polymerase chain reaction...

...reduced the number of CFU-GM derived from vector-infected CD34sup + cells by 50%. These findings demonstrate that human hematopoietic stem cells infected with this **retroviral** vector are susceptible to ganciclovir, offering the potential to control transduced gene expression in vivo.

5/3,K/27 (Item 6 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2006 Elsevier Science B.V. All rts. reserv.

05864422 EMBASE No: 1994277774  
**Transfer and expression of the human multiple drug resistance gene in human CD34sup + cells**  
Ward M.; Richardson C.; Pioli P.; Smith L.; Podda S.; Goff S.; Hesdorffer C.; Bank A.  
Columbia University, HHSC 16-1602, 701 W 168th St, New York, NY 10032  
United States  
Blood ( BLOOD ) (United States) 1994, 84/5 (1408-1414)  
CODEN: BLOOA ISSN: 0006-4971  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...gene transfer. Human bone marrow cells and isolated CD34sup + cells isolated from marrow were exposed to growth factors interleukin-3 (IL-3),

IL-6, and **stem cell factor** for 48 hours and then to two changes of MDR **retroviral** supernatants over the next 24 hours. Progenitor assays in methylcellulose at this time showed that 18% to 70% of BFU-E and 30% to 60% ...

5/3,K/28 (Item 7 from file: 73)

DIALOG(R) File 73:EMBASE

(c) 2006 Elsevier Science B.V. All rts. reserv.

05525890 EMBASE No: 1993293989

**Long-term in vivo expression of a murine adenosine deaminase gene in rhesus monkey hematopoietic cells of multiple lineages after retroviral mediated gene transfer into CD34sup + bone marrow cells**

Bodine D.M.; Moritz T.; Donahue R.E.; Luskey B.D.; Kessler S.W.; Martin D.I.K.; Orkin S.H.; Nienhuis A.W.; Williams D.A.

Clinical Hematology Branch, NHLBI, NIH/Building 10, 9000 Rockville Pike, Bethesda, MD 20892 United States

Blood ( BLOOD ) (United States) 1993, 82/7 (1975-1980)

CODEN: BLOOA ISSN: 0006-4971

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Retroviral** mediated gene transfer into stem cells has been proposed as therapy for many inherited hematopoietic diseases. Deficiency of the enzyme adenosine deaminase (ADA) results in depletion of T lymphocytes, causing severe combined immunodeficiency syndrome (SCIDS). In this report, we describe **retroviral** mediated gene transfer of a murine ADA cDNA into Rhesus monkey hematopoietic stem cells. Immunoselected CD34sup + bone marrow cells were exposed to medium containing the ADA retrovirus during culture on a stromal cell line engineered to express the transmembrane form of **stem cell factor**. After infusion of autologous, transduced cells into irradiated recipients, gene transfer was observed in all three monkeys. The ADA provirus was detected in 2% of...

?

Set	Items	Description
S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
S2	59	S1 NOT PY>1995
S3	30	RD (unique items)
S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)
S5	28	S3 NOT S4

?

S (PACKAGING OR PRODUCER) (W) CELL?

Processing

Processing

35492 PACKAGING

17352 PRODUCER

9957918 CELL?

S6 4192 (PACKAGING OR PRODUCER) (W) CELL?

?

S (SCF OR (STEEL (W) FACTOR) OR (KIT (W) LIGAND) OR (FLT3 (W) LIGAND) OR (STEM (W) C

Processing

11238 SCF

35240 STEEL

2487915 FACTOR

1733 STEEL(W) FACTOR

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56438 KIT
336917 LIGAND
2386 KIT(W) LIGAND
5055 FLT3
336917 LIGAND
3337 FLT3(W) LIGAND
403703 STEM
8298348 CELL
2487915 FACTOR
15975 STEM(W) CELL(W) FACTOR
S7 24403 (SCF OR (STEEL (W) FACTOR) OR (KIT (W) LIGAND) OR (FLT3
(W) LIGAND) OR (STEM (W) CELL (W) FACTOR))
?
```

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S S7 (S) (SURFACE OR TARGETING OR FUSION OR CHIMERIC OR FUSED)
24403 S7
1316209 SURFACE
176882 TARGETING
302720 FUSION
69043 CHIMERIC
84478 FUSED
S8 2519 S7 (S) (SURFACE OR TARGETING OR FUSION OR CHIMERIC OR
FUSED)
?
```

Set	Items	Description
S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
S2	59	S1 NOT PY>1995
S3	30	RD (unique items)
S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)
S5	28	S3 NOT S4
S6	4192	(PACKAGING OR PRODUCER) (W) CELL?
S7	24403	(SCF OR (STEEL (W) FACTOR) OR (KIT (W) LIGAND) OR (FLT3 (W) LIGAND) OR (STEM (W) CELL (W) FACTOR))
S8	2519	S7 (S) (SURFACE OR TARGETING OR FUSION OR CHIMERIC OR FUSED)

?

```

S S6 AND S8
4192 S6
2519 S8
S9 19 S6 AND S8
?
```

```

RD
S10 10 RD (unique items)
?
```

```

S S10 NOT PY>1995
10 S10
15363289 PY>1995
S11 0 S10 NOT PY>1995
?
```

T S10/3,K/ALL

10/3,K/1 (Item 1 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

19306491 PMID: 15468194

**Growth factor displayed on the surface of retroviral particles without manipulation of envelope proteins is biologically active and can enhance transduction.**

Chandrashekran Anil; Gordon Myrtle Y; Darling David; Farzaneh Farzin; Casimir Colin

Department of Haematology, Faculty of Medicine, Imperial College of Science Technology & Medicine, Du Cane Road, London W12 0NN, UK.

journal of gene medicine (England) Nov 2004, 6 (11) p1189-96, ISSN 1099-498X--Print Journal Code: 9815764

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...we have tested whether the natural budding mechanism of the retrovirus could be exploited to incorporate a specific molecule into the retroviral surface. **METHODS:** Retroviral **packaging cells** were engineered to express the membrane-bound form of human **stem cell factor** (mbSCF). **Surface** expression of mbSCF on **retroviral packaging cells** was confirmed by immunofluorescence and flow cytometry. Incorporation of mbSCF into retroviral particles was demonstrated by virus-binding assay and immunomagnetic capture of virus using antibody to **SCF**. Retroviral supernatants were tested for activity of the incorporated cytokine by proliferation assays on factor-dependent cells. Amphotropic retrovirus displaying **surface** mbSCF was used to transduce **SCF** receptor-positive haematopoietic cells. **RESULTS:** Retroviruses incorporating **surface SCF** showed increased levels of binding to cells (MO7e) expressing the **SCF** receptor, c-kit. mbSCF displayed on the viral **surface** retained levels of biological activity comparable with those of soluble recombinant growth factor. Transduction of c-kit-positive target cells with viruses displaying mbSCF showed enhanced levels of transduction in comparison with unmodified viruses. **CONCLUSIONS:** Expression of the membrane-bound form of human **stem cell factor** (mbSCF) on the **surface** of retroviral ☐ **packaging cells** ☐ allows its efficient incorporation into retrovirus particles in a biologically active form, opening up the possibility for the use of retroviral display in many therapeutic...

10/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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15221782 PMID: 14990041

**[Long term regulated expansion and committed differentiation of JAK2 gene transfected hematopoietic stem/progenitor cells in vitro]**

Zhao Sheng-ming; Gu Xi-chun; Chang Nai-bai; Clackson Tim; Blau C Anthony  
Department of Hematology, Beijing Hospital, Beijing 100730, China.

Zhonghua xue ye xue za zhi = Zhonghua xueyexue zazhi (China) Feb 2004, 25 (2) p65-9, ISSN 0253-2727 Journal Code: 8212398

Publishing Model Print

Document type: Journal Article ; English Abstract

Languages: CHINESE

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... progenitor cells in vitro. **METHODS:** A murine stem cell virus (MSCV) based retroviral vector MGI-F2Jak2, which encodes a green fluorescent

protein (GFP) and a **fusion** protein containing two copies of modified FK506 binding protein (F36v) linked tyrosine kinase JAK2 was cloned. F36v served as a high-affinity binding site for dimerizer AP20187. GpE + 86 **packaging cell** was transfected with this vector. Bone marrow cells from C57BL/6 mice were transduced by co-cultured with irradiated (1500 cGy) GpE + 86 producer clone...

... h. Transduced marrow cells were expanded in X-VIVO 15 and divided into four groups as follows: (1) control group; (2) AP20187 alone group; (3) **SCF** alone group and (4) AP20187 + **SCF** group. The phenotypes of the expanded cells were analyzed by directly phycoerythrin-labeled anti-Scal, c-kit, CD(34), Gr1, CD(11b), TER119, CD(41)...

...and spleen colony forming units (CFU-S) were further evaluated. RESULTS: A significant sustained outgrowth of transduced marrow cells was obtained only in the AP20187 + **SCF** group. Cells expanded up to 10(14)-fold after 80 days culture. The doubling time was about 30 hs. The phenotypes of the expanded cells...

... cells had multipotential to differentiate into granulocyte, macrophage, erythrocyte, or B-cells under different cytokines combinations. A prominent megakaryocytic differentiation was observed when cultured with **SCF** /Tpo/IL-11 combination. The expanded cells were also capable of forming BFU-E, CFU-GM and CFU-Mix in methylcellulose colony assay. The expanded cells over three months could still form CFU-S. CONCLUSIONS: AP20187 combined **SCF** mediated activation of JAK2 signaling domain can dramatically expand hematopoietic stem/progenitor cells, and the expanded cells can be regulated and committed to differentiate into...

10/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

13489944 PMID: 10455411

**Retroviral transduction of quiescent haematopoietic cells using a packaging cell line expressing the membrane-bound form of stem cell factor.**

Sehgal A; Weeratunge N; Casimir C

Department of Haematology, Imperial College School of Medicine, St Mary's Campus, Norfolk Place, London W2 1PG, UK.

Gene therapy (ENGLAND) Jun 1999, 6 (6) p1084-91, ISSN 0969-7128

Journal Code: 9421525

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

**Retroviral transduction of quiescent haematopoietic cells using a packaging cell line expressing the membrane-bound form of stem cell factor.**

... an attempt to circumvent this difficulty we have constructed a retroviral producer line that expresses the membrane bound form of human recombinant stem cell factor ( **SCF** ) on its cell **surface** . This should enable the retroviral producers to deliver a growth signal to the target cells simultaneous with their exposure to retrovirus. We tested the ability of these modified producers to transduce a growth factor-starved, **SCF** -dependent cell line (TF-1) and demon- strated that these cells, though quiescent, can still be successfully transduced. This approach was extended to **targeting** of umbilical cord blood CD34+ cells, a predominantly



quiescent population that normally require the addition of cytokines for efficient transduction. Using the **SCF** -expressing producer line in the absence of exogenously added cytokines, we observed a marked stimulation in transduction efficiency over that achieved using the parent producer...

10/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

13267987 PMID: 9923449

**Expression of a foreign protein in human megakaryocytes and platelets by retrovirally mediated gene transfer.**

Burstein S A; Dubart A; Norol F; Debili N; Friese P; Downs T; Yu X; Kincade P W; Villeval J L; Vainchenker W

Department of Medicine and the William K. Warren Medical Research Institute, University of Oklahoma Health Services Center, Oklahoma City 73190, USA.

Experimental hematology (UNITED STATES) Jan 1999, 27 (1) p110-6,  
ISSN 0301-472X Journal Code: 0402313

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... protein. CD34+ human peripheral blood or marrow progenitors, enriched by immunomagnetic bead selection, were cultured for 5 days in the presence of growth factors, including **stem cell factor** and thrombopoietin, to induce MK progenitors into the cell cycle. The stimulated cells were then cocultured with the mCD9 retroviral **producer cell** line for 3 days, followed by culture in serum-depleted medium for 3 to 7 additional days. Flow cytometry analysis using the anti-CD9 MoAb...

... TAB+ particles were functionally active. Addition of phorbol myristate acetate resulted in the redistribution of P-selectin (CD62) from the alpha granule to the platelet **surface** as detected by MoAbs S12 and G5 in three-color flow cytometry analyses. These studies showed that up to 76% of the mCD9+ TAB+ particles...

10/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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12637909 PMID: 10560908

**Retroviral marking of acute myelogenous leukemia progenitors that initiate long-term culture and growth in immunodeficient mice.**

Ailles L E; Humphries R K; Thomas T E; Hogge D E

Terry Fox Laboratory, British Columbia Cancer Agency, Vancouver, Canada.

Experimental hematology (NETHERLANDS) Nov 1999, 27 (11) p1609-20,  
ISSN 0301-472X Journal Code: 0402313

Publishing Model Print

Document type: Clinical Trial; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... of genetic modification of these progenitors for gene marking and/ or gene therapy strategies, cells from patients with newly-diagnosed AML were

cocultured with retroviral **producer cells** and then placed in colony (AML-CFC) assays, LTC, and injected intravenously into NOD/SCID mice. Southern blotting demonstrated transfer of the neo(r) gene...

... cytokines present. Interestingly, the majority of AML-CFC or AML LTC-IC survived the 24-hour culture period. A retroviral vector containing the murine cell **surface** marker heat stable antigen (HSA), which allows purification of transduced cells on immunomagnetic columns, was used to obtain an enriched population of gene-modified AML...

... 36 hours. These modifications failed to improve engraftment of the infected cells. In addition, in these experiments more than 10 hours of cocultivation with viral **producer cells** was necessary to achieve gene transfer and expression in AML LTC-IC. These data demonstrate that although retroviral-mediated gene transfer can be achieved to...

10/3,K/6 (Item 6 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
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12526087 PMID: 9834213

**Enhanced retroviral transduction of 5-fluorouracil-resistant human bone marrow (stem) cells using a genetically modified packaging cell line.**  
Povey J; Weeratunge N; Marden C; Sehgal A; Thrasher A; Casimir C  
Department of Haematology, Imperial College School of Medicine, St Mary's Campus, Norfolk Place, London, UK.  
Blood (UNITED STATES) Dec 1 1998, 92 (11) p4080-9, ISSN 0006-4971  
Journal Code: 7603509  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

**Enhanced retroviral transduction of 5-fluorouracil-resistant human bone marrow (stem) cells using a genetically modified packaging cell line.**  
... cycling. To try and surmount this problem we have constructed a retroviral producer line that expresses the membrane-bound form of human stem cell factor ( **SCF** ) on its cell **surface** . These cells are capable, therefore, of delivering a growth signal concomitant with recombinant retroviral vector particles. In this report we describe the use of this...  
... using the 5-fluorouracil (FU) resistance technique of Berardi et al. Quiescent cells selected using this technique were transduced by cocultivation with retroviral producers expressing **surface** bound **SCF** or with the parent cell line that does not. Following coculture, the cells were plated in long-term bone marrow culture for a further 5...

... chain reaction for the presence of the retroviral vector genome. Over six experiments, the transduction frequency of the quiescent 5-FU resistant cells using the **SCF** -expressing producer line averaged about 20%, whereas those transduced using the parent producer line showed evidence of reduced levels or no transduction.

10/3,K/7 (Item 1 from file: 5)  
DIALOG(R) File 5:BIOSIS Previews(R)  
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0014887161 BIOSIS NO.: 200400257918

**Materials and methods relating to the transfer of nucleic acid into quiescent cells**

AUTHOR: Russell Stephen James (Reprint); Fielding Adele Kay; Casimir Colin Maurice

AUTHOR ADDRESS: Cambridge, UK\*\*UK

JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1281 (3): Apr. 20, 2004 2004

MEDIUM: e-file

PATENT NUMBER: US 6723561 PATENT DATE GRANTED: April 20, 2004 20040420

PATENT CLASSIFICATION: 435-377 PATENT ASSIGNEE: Mayo Foundation for Medical Education and Research PATENT COUNTRY: USA

ISSN: 0098-1133 (ISSN print)

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: transferring nucleic acid encoding a polypeptide for treating a disease or disorder into populations of quiescent cells such as haematopoietic stem cells (HSCs), using retroviral **packaging cell** lines and retroviral particles expressing and display a growth factor such as stem cell factor ( **SCF** ) on the cell **surface** or as a fusion with a viral envelope protein. The present invention also relates to compositions comprising the retroviral **packaging cell** lines and retroviral particles, and their use in methods of medical treatment, in vivo and ex vivo.

10/3,K/8 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0014814465 BIOSIS NO.: 200400182151

**Up to 45% transduction of human G-CSF mobilized peripheral blood CD34 cells following a single exposure to a retroviral vector facilitates efficient generation of gene-modified dendritic cells for immunotherapy.**

AUTHOR: Melenhorst Jan J (Reprint); Solomon Scott R (Reprint); Zhao Ling; Hensel Nancy F (Reprint); Barrett Austin J (Reprint)

AUTHOR ADDRESS: Hematology, National Institutes of Health, NHLBI, Bethesda, MD, USA\*\*USA

JOURNAL: Blood 102 (11): p494b November 16, 2003 2003

MEDIUM: print

CONFERENCE/MEETING: 45th Annual Meeting of the American Society of Hematology San Diego, CA, USA December 06-09, 2003; 20031206

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: gene marking of PB-CD34 cells, a number of conditions were tested. To permit transduction and induce DC, PB-CD34 cells were activated with GM- **SCF** , **SCF** , Flt3L and TNFalpha in IMDM supplemented with 10% human AB serum. After 2 days, cells were resuspended in virus-containing medium (VCM) from the PG13 producer line (VCM-GALV; **targeting** Pit-1 receptor) and 8 ug/ml polybrene, and centrifuged together in tissue-culture treated plates at 1,635 g at 30degreeC for 90 minutes...

...VCM-GALV after the two day prestimulation in retronectin-coated plates did not improve gene transfer efficiency, but with VCM from the

amphotropic Phoenix-A **producer cell** line (VCM/Ampho; targets the Pit-2 retroviral receptor) up to 2.3% cells were eGFP+. Preloading retronectin with VCM/GALV for an hour at...

...cells in variations of the cytokine combination described, resulted in up to a tenfold increase in the percentage of eGFP+ cells, suggesting that the PG13 **packaging cell** line produced a factor that inhibited gene transfer. This protocol with two day prestimulated CD34 cells and VCM/GALV or VCM/Ampho, was repeated using...

...compared with the static virus loading of retronectin. The highest gene marking was achieved with VCM/GALV and VCM/Ampho (45% and 26% respectively), using **SCF** plus GM-CSF prestimulated CD34 cells. These results indicate that G-CSF-mobilized CD34 cells, prestimulated for 2 days with **SCF** and GM-CSF, are efficiently transduced with MLV-based vectors in only one transduction round using GALV-pseudotyped virus, preloaded on retronectin.

10/3,K/9 (Item 3 from file: 5)

DIALOG(R)File 5:BIOSIS Previews(R)

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0014379567 BIOSIS NO.: 200300336310

**SDF-1/CXCL12 Enhances Retroviral-Mediated Gene Transfer into Human and Murine Hematopoietic Progenitor Cells.**

AUTHOR: Tao Wen (Reprint); Hangoc Giao (Reprint); Cooper Scott (Reprint); Broxmeyer Hal E (Reprint)

AUTHOR ADDRESS: Microbiology and Immunology, Indiana University School of Medicine, Indianapolis, IN, USA\*\*USA

JOURNAL: Blood 100 (11): pAbstract No. 1710 November 16, 2002 2002

MEDIUM: print

CONFERENCE/MEETING: 44th Annual Meeting of the American Society of Hematology Philadelphia, PA, USA December 06-10, 2002; 20021206

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Gene therapy **targeting** of hematopoietic stem and progenitor cells has great potential as an approach to modify genetic and acquired diseases affecting blood cells and the immune system...

...bicistronic retroviral vector expressing the green fluorescent protein (EGFP) was used in all transductions. The titers of amphotropic and ecotropic retroviral supernatants generated in Phoenix **packaging cells** are appr<sub>x</sub>5 X 10<sup>5</sup> infectious U/ml, which are in the range of the standard titer of clinical grade retrovirus. Low-density murine mononuclear bone marrow cells as well as FACS sorted cKit+Lin- bone marrow cells were pre-stimulated with **SCF** + IL-6, and then transduced twice with MIEG3 on Retronectin coated surfaces in the absence or presence of SDF-1. Transduction efficiencies were assessed by...

...expression of progenitors in total bone marrow and cKit+Lin- bone marrow cells, respectively. Furthermore, human mononuclear umbilical cord blood cells were pre-stimulated with **SCF** + Flt-3 ligand + MGDF, and then transduced as described above. Similarly, inclusion of SDF-1 during transduction respectively enhanced transduction into immature subsets of high...

10/3,K/10 (Item 4 from file: 5)  
 DIALOG(R)File 5:Biosis Previews(R)  
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0013130335 BIOSIS NO.: 200100302174

**Mutations which accelerate G1 cooperate with CBFbeta-SMMHC to induce acute leukemia in mice**

AUTHOR: Yang Yandan; Britos-Bray Martin; Cheng Linzhao; Civin Curt I;  
 Friedman Alan D

JOURNAL: Blood 96 (11 Part 1): p90a November 16, 2000 2000

MEDIUM: print

CONFERENCE/MEETING: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000; 20001201

SPONSOR: American Society of Hematology

ISSN: 0006-4971

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: retroviral vectors encoding CBFbeta-SMMHC, HPV16-E7, both, or neither. E7 stimulates G1 by inactivating Rb. Three of the vectors also encode an NGFR-GFP fusion protein, enabling use of NGFR antibody to select high-titre CRE producer cells. For the CBFbeta-SMMHC/E7 vector, multiple CRE subclones were screened by viral RNA slot blot analysis. Slot blot analysis with an LTR segment probe...

...mice treated 60 hrs earlier with 150 mg/kg 5-FU were co-cultured with irradiated (40 Gy) packaging lines with IL-3, IL-6, SCF, and polybrene for 48 hrs. 2 X 10<sup>6</sup> cells were then injected IV into syngeneic recipients which had been irradiated to 9.5 Gy. In...

?

Set	Items	Description
S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
S2	59	S1 NOT PY>1995
S3	30	RD (unique items)
S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)
S5	28	S3 NOT S4
S6	4192	(PACKAGING OR PRODUCER) (W) CELL?
S7	24403	(SCF OR (STEEL (W) FACTOR) OR (KIT (W) LIGAND) OR (FLT3 (W) LIGAND) OR (STEM (W) CELL (W) FACTOR))
S8	2519	S7 (S) (SURFACE OR TARGETING OR FUSION OR CHIMERIC OR FUSED)
S9	19	S6 AND S8
S10	10	RD (unique items)
S11	0	S10 NOT PY>1995

?

S (CHIMERIC (W) ENVELOPE (W) PROTEIN?) AND (LINKER)  
 Processing

69043	CHIMERIC
99216	ENVELOPE
5301189	PROTEIN?
92	CHIMERIC (W) ENVELOPE (W) PROTEIN?
29105	LINKER
S12	0 (CHIMERIC (W) ENVELOPE (W) PROTEIN?) AND (LINKER)

?

S (CHIMERIC OR FUSED OR FUSION) (S) (CLEAVABLE OR LINKER)

69043 CHIMERIC  
 84478 FUSED  
 302720 FUSION  
 6461 CLEAVABLE  
 29105 LINKER  
 S13 3553 (CHIMERIC OR FUSED OR FUSION) (S) (CLEAVABLE OR LINKER)

?

S S13 (S) (RETROVIRAL OR RETROVIRUS)

3553 S13  
 42558 RETROVIRAL  
 45091 RETROVIRUS  
 S14 58 S13 (S) (RETROVIRAL OR RETROVIRUS)

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S S14 NOT PY>1995

58 S14  
 15363289 PY>1995  
 S15 6 S14 NOT PY>1995

?

RD

S16 2 RD (unique items)

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T S16/3,K/ALL

16/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10580479 PMID: 8178453

**Mutational analysis of the human endogenous ERV9 proviruses promoter region.**

Strazzullo M; Majello B; Lania L; La Mantia G

Department of Genetics, General and Molecular Biology, University of Naples, Italy.

Virology (UNITED STATES) May 1 1994, 200 (2) p686-95, ISSN 0042-6822 Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...TATA box and an Inr-like region; the concerted action of both elements is necessary for faithful transcription. Finally, using a series of GAL4 protein **fusion** constructs in cotransfection experiments, we demonstrated that various transcription factors can synergistically induce a high level of transcription when bound to an ERV9 DNA promoter.

16/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

09172216 PMID: 2173771

**Ectopic expression of the erythrocyte band 3 anion exchange protein, using a new avian retrovirus vector.**

Fuerstenberg S; Beug H; Introna M; Khazaie K; Munoz A; Ness S; Nordstrom

K; Sap J; Stanley I; Zenke M; et al

Department of Molecular Biology, Karolinska Institute, Stockholm, Sweden.

Journal of virology (UNITED STATES) Dec 1990, 64 (12) p5891-902,

ISSN 0022-538X Journal Code: 0113724

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

A **retrovirus** vector was constructed from the genome of avian erythroblastosis virus ES4. The v-erbA sequences of avian erythroblastosis virus were replaced by those coding for neomycin phosphotransferase, creating a gag-neo **fusion** protein which provides G418 resistance as a selectable marker. The v-erbB sequences following the splice acceptor were replaced by a cloning **linker** allowing insertion of foreign genes. The vector has been tested in conjunction with several helper viruses for the transmission of G418 resistance, titer, stability, transcription...

?

Set	Items	Description
S1	352	(RETROVIRAL) (S) (STEM (W) CELL (W) FACTOR)
S2	59	S1 NOT PY>1995
S3	30	RD (unique items)
S4	2	S3 AND ((IMPROVED OR ENHANCED OR BETTER) AND TRANSDUCTION)
S5	28	S3 NOT S4
S6	4192	(PACKAGING OR PRODUCER) (W) CELL?
S7	24403	(SCF OR (STEEL (W) FACTOR) OR (KIT (W) LIGAND) OR (FLT3 (W) LIGAND) OR (STEM (W) CELL (W) FACTOR))
S8	2519	S7 (S) (SURFACE OR TARGETING OR FUSION OR CHIMERIC OR FUSE-D)
S9	19	S6 AND S8
S10	10	RD (unique items)
S11	0	S10 NOT PY>1995
S12	0	(CHIMERIC (W) ENVELOPE (W) PROTEIN?) AND (LINKER)
S13	3553	(CHIMERIC OR FUSED OR FUSION) (S) (CLEAVABLE OR LINKER)
S14	58	S13 (S) (RETROVIRAL OR RETROVIRUS)
S15	6	S14 NOT PY>1995
S16	2	RD (unique items)

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    $6.16  28 Type(s) in Format  3
    $6.16  28 Types
$19.51 Estimated cost File155
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  OneSearch, 3 files, 11.118 DialUnits FileOS
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$109.27 Estimated cost this search

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